
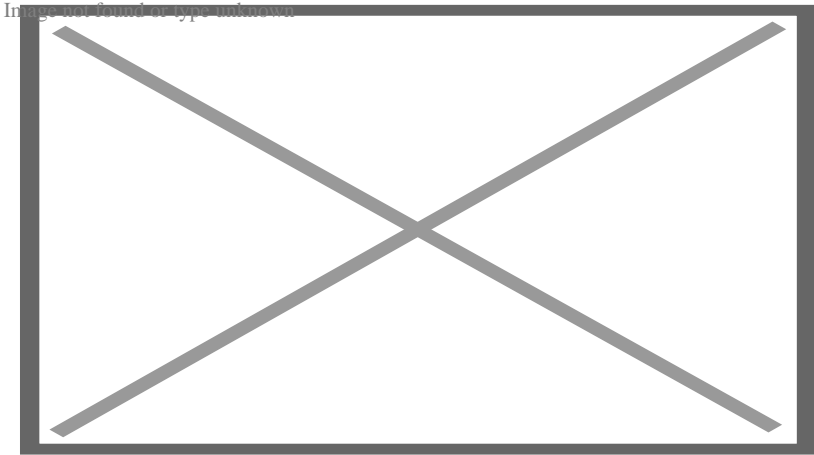
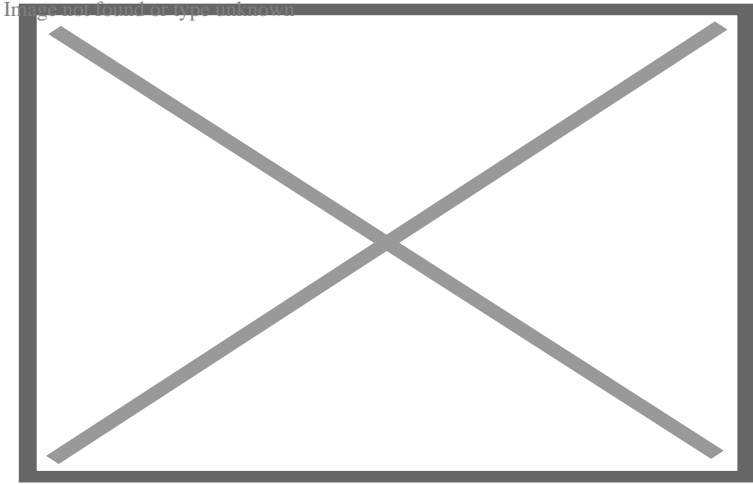


????????? ? ? ????; $q\sigma$ – ?????????? ?????????????????? ?????? ? ?????????? ??????????

??????? ?????????? γ ??? ???? ?????????? ? ?????????????? [3], ?????? ??? ?????? ?????? ?????????? ?????????? ??????????, ?????????? ???? ?????? ?????, ?????????? ? ??? ?????, ? ?????????????? ?????? ?????????? ??????, ?????????????? ? ??. 1 ? 2, ? ?????????? ?????????? ?????????????? ?????: , ??? Sm – ?????? ??? ?????????? ? ?????? ?????; Rz – ?????? ?????????? ? ??????????. ?????? ?????????????? x ? ?????????? ?????? y ? ?????? ???? ?????????? ?????????? ?????????????? Sm/Rz ?????????????? ? ????. 1.




?????? 1 – ?????????? ?????????????? γ ???? ?????? ?????????? ??? ?????????????? ? ?? ?????? (Sm/Rz ?? 4)



?????? 2 – ?????????? ?????????????? γ ???? ?????? ?????????? ??? ?????????????? ? ?? ?????? (Sm/Rz ?? 4 ? ????)

?????? 1 – ??????? x ? y ? ?????? ??? ??????????? γ

?????? Sm/Rz	x	y	?? $R2$
?? 4	0,25	0,944	0,9859
?? 4 ? ???	0,76	0,134	0,8155

?????? q ? ??????????? ?? ?????? , ??? a – ?????????? ?????????? [4]. ??????? ?? ??????? ?????????? ? ??????????? ?? ??????? ?????????? ?????????? ??????? ?? ??????????? ?? ???????, ??????????? ? [3]. ?????? ?????? ?????? ?????????????? ???????????, ?????????? ? ?????????????????? ???????, ?????????????????? ?? ???. 3 ? ?????????????? ?? ?????? ??????, ??????????? ? [3].

300 600 900 1200 1500 σ ?, ???

a , ??

0,4

0,3

0,2

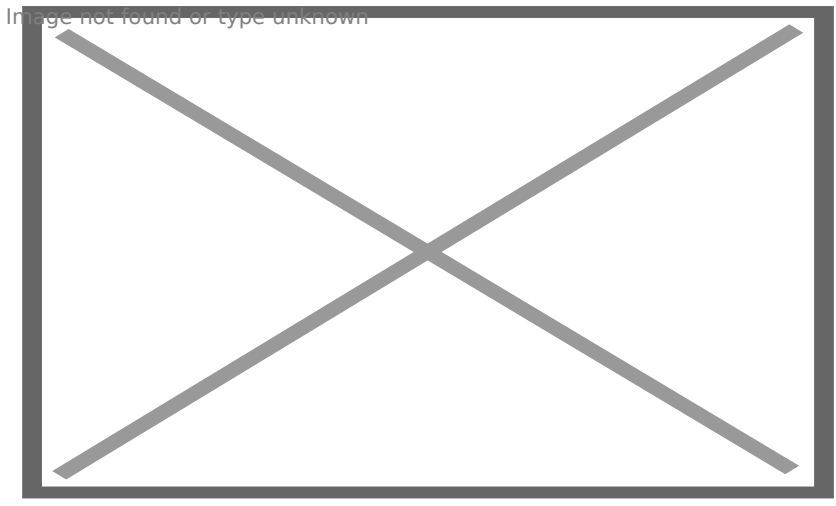
0,1

0,05

0,03

0,02

0,01



?????? 3 – ??????? ???????????? a ? ??????????? ? ????
????????? ?????????? ? ???? ?

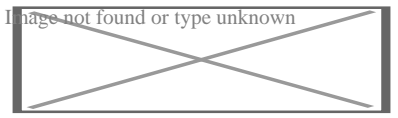
? ???? ???? (???. 3) ?? $R_2 = 0,9729$?????? ? ??????????? ? ???? , ??:

$$? = 4610\sigma^{-1,573} ,$$

?? σ – ??? ???? ?????????? ?????????? ?????? ? ???? , ??.

???????? $t = R_z$, ?? ? ???? ?????????????????? ? ?????????? ? ?????????? ? ?????????? ?????????? ?????????? ?????????? $R_z = R_{max}$, ?? R_z – ??? ???? ?????????? ? ?????????? ?????????? , R_{max} – ?????????? ?????? ??????????

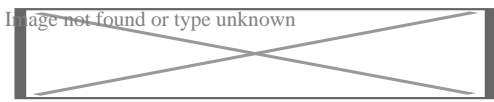
? ???? ?????????????????? ? ??? , ?? $R_a = 0,2R_z$ [17], ??? ?????????????????? ?????? ? ? ?????????? $\alpha\sigma$?? ????????? ? ???? ??????????



?? R_a – ?????? ?????????????????? ?????????? ???????.

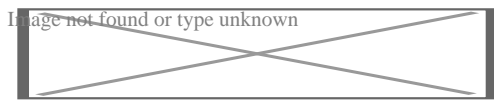
???????? $\rho = r?? = 0,03(Sm/Ra)$ [17], ?? $r??$ – ??? ???? ?????? ?????? ?????????????? , ??? ?????????????????? ?????????????????? ?????????????????? ?????????????????? ?????????????????? ?????? ???? ?????????? ? ?????????:

– ?? ?????????? ? ??????



(1)

– ?? ?????????????? ? ??????



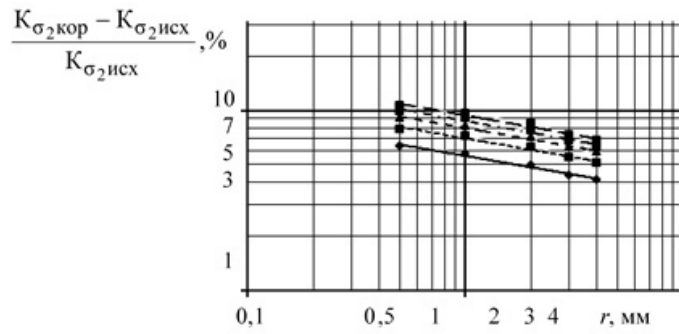
(2)

3 ?????????? ?????????????

???? ?????????? ?????????? ?????????? σ ?? ?????????? ?? ????? 30????, ?????????? ?????????? ?????????????? ? ????. 2.

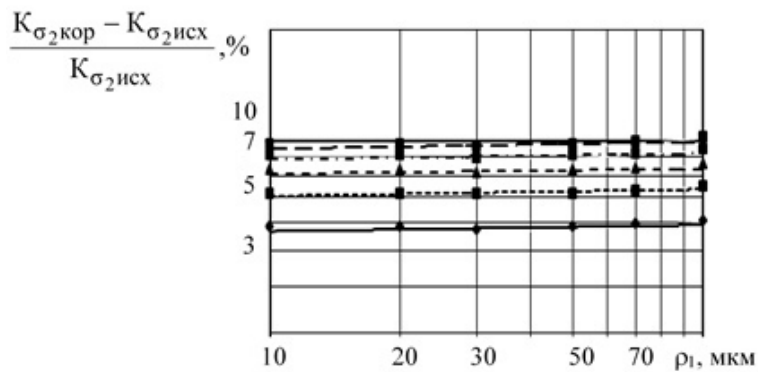
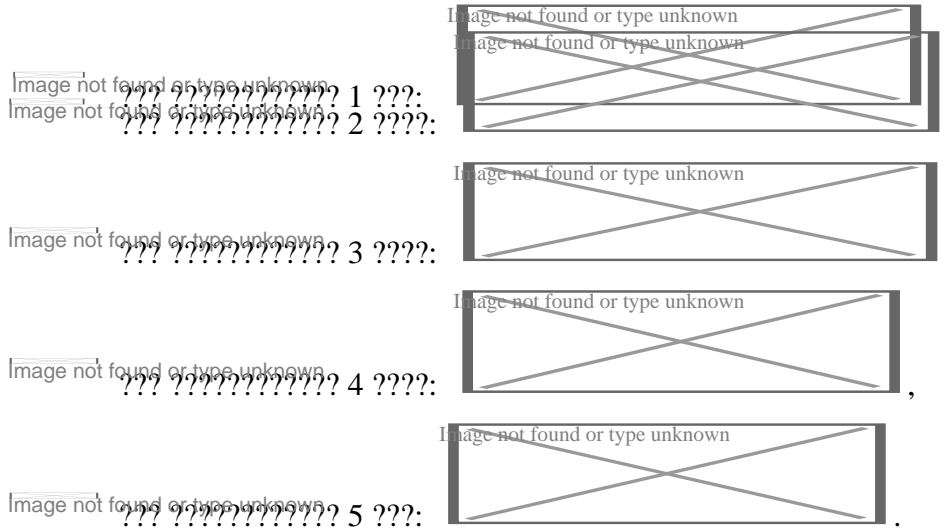
???????? 2 – ?????????? ?????????? ?????????? ?????????????????? ?????????????? ?????????????? ? ?????????????????? ????? ?????????????? ????????? (?????? 30????) ?????????????? ?????????? ? ?????????? ??????????????????

????????? ????????????	S, ??/??	Sm, ???	Rz???, ?????????? ?????? ????????????? (?????????????????), ???	?, ??? ??????- ???????	Rz, ?????????? ?????? ?????????????-???, ???	? ₁ , ?????????? ? ??????	? ₂ , ???????????? ?????
V = 150 ?/???; r = 1??; ? = 45°; ? ₁ = 15°; ? = 10°; ? = 15°; t = 0,5 ??; ? ₁ = 20 ???	0,1	141	2,5 ? ₁ = 1,049 ? ₂ = 1,097'	1	4,298	1,077	1,153
				2	4,76	1,083	1,167
				3	5,081	1,088	1,176
				4	5,335	1,091	1,183
				5	5,549	1,094	1,188
	0,15	183	4,2 ? ₁ = 1,062 ? ₂ = 1,124'	1	6,435	1,089	1,177
				2	7,01	1,095	1,19
				3	7,412	1,1	1,199
				4	7,731	1,103	1,206
				5	7,799	1,104	1,208
	0,2	247	7,7 ? ₁ = 1,082 ? ₂ = 1,164'	1	10,579	1,108	1,216
				2	11,323	1,114	1,228
				3	11,843	1,118	1,237
				4	12,256	1,122	1,244
				5	12,604	1,125	1,249
0,25	302	11,5 ? ₁ = 1,099 ? ₂ = 1,198'	1	14,904	1,124	1,247	
			2	15,785	1,13	1,26	
			3	16,401	1,134	1,268	
			4	16,891	1,137	1,275	



?????? 5 – ?????????? ?????????? ?σ???? ?? ?????? ?????????? ?????? ???? ?????? ?????? ? ??????

????????????? ?? ??? 5:



?????? 6 – ?????????? ?σ???? ?? ?????? ?????????? ??????? ?????? ?????? ρ1

